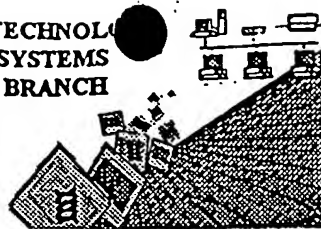# RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10 517 039

Source: PCT

Date Processed by STIC: 12-22-04

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
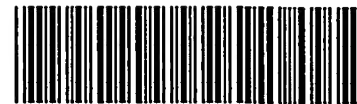Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
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Revised 05/17/04

PCT

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RAW SEQUENCE LISTING                    DATE: 12/22/2004
PATENT APPLICATION:  US/10/517,039      TIME: 09:15:16

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C--> 10 <141> CURRENT FILING DATE: 2004-12-07
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ERRORED SEQUENCES

Does Not Comply
Corrected Diskette Needed
(pg.1-15)

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RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

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Output Set: N:\CRF4\12222004\J517039.raw

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PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

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PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

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RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

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Output Set: N:\CRF4\12222004\J517039.raw

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402 atcccgatgg atgccgccga gcgtaactat aaagatccta accacaagcc ggagctggtt 420
404 tttgcgctga cgcctttcct tgcgatgaac gcgtttcgtg aattttccga gattgtctcc 480
406 ctactccagc cggtcgcagg tgcacatccg gcgattgctc acttttttaca acagcctgat 540
408 gccgaacgtt taagcgaact gttcgccagc ctgttgaata tgcagggtga agaaaaatcc 600
410 cgcgcgctgg cgatttttaaa atcggccctc gatagccagc agggtgaacc gtggcaaacg 660
412 attcgtttaa tttctgaatt ttacccggaa gacagcggtc tgttctcccc gctattgctg 720
414 aatgtggtga aattgaaccc tggcgaagcg atgttcctgt tcgctgaaac accgcacgct 780
416 tacctgcaag gcgtggcgct ggaagtgatg gcaaactccg ataacgtgct gcgtgcgggt 840
E--> 418 Page 6
W--> 422 70094 Syngenta — delete
E--> 424 ctgacgccta aatacattga tattccggaa ctggttgcca atgtgaaatt cgaagccaaa 900
E--> 426 ccggctaacc agttgttgac ccagccggtg aaacaaggtg cagaactgga cttcccgatt 960
E--> 428 ccagtggatg attttgcctt ctcgctgcat gaccttagtg ataaagaaac caccattagc 1020
E--> 430 cagcagagtg ccgccatttt gttctgcgtc gaaggcgatg caacgttgtg gaaaggttct 1080
E--> 432 cagcagttac agcttaaacc gggtgaatca gcgtttattg ccgccaacga atcaccggtg 1140
E--> 434 actgtcaaag gccacggccg tttagcgcgt gtttacaaca agctgtaaga gcttactgaa 1200
E--> 436 aaaattaaca tctcttgcta agctgggagc tctagatccc cgaatttccc cgatcgttca 1260
E--> 438 aacatttggc aataaagttt cttaagattg aatcctgttg ccggtcttgc gatgattatc 1320
E--> 440 atataatttc tgttgaatta cgttaagcat gtaataatta acatgtaatg catgacgtta 1380
E--> 442 tttatgagat gggtttttat gattagagtc ccgcaattat acatttaata cgcgatagaa 1440
E--> 444 aacaaaatat agcgcgcaaa ctaggataaa ttatcgcgcg cggtgtcatc tatgttacta 1500
E--> 446 gatcgggaat tgggtaccat gcccgggcgg ccagcatggc cgtatccgca atgtgttatt 1560
E--> 448 aagttgtcta agcgtcaatt tgtttacacc acaatatatc ctgccaccag ccagccaaca 1620
E--> 450 gctccccgac cggcagctcg gcacaaaatc accactcgat acaggcagcc catcagaatt 1680
E--> 452 aattctcatg tttgacagct tatcatcgac tgcacggtgc accaatgctt ctggcgtcag 1740
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E--> 456 gctcaaggcg cactcccgtt ctggataatg ttttttgcgc cgacatcata acggttctgg 1860
E--> 458 caaatattct gaaatgagct gttgacaatt aatcatccgg ctcgtataat gtgtggaatt 1920
E--> 460 gtgagcggat aacaatttca cacaggaaac agaccatgag ggaagcgttg atcgccgaag 1980
E--> 462 tatcgactca actatcagag gtagttggcg tcatcgagcg ccatctcgaa ccgacgttgc 2040
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E--> 466 atttgctggt tacggtgacc gtaaggcttg atgaaacaac gcggcgagct ttgatcaacg 2160
E--> 468 accttttgga aacttcggct tcccctggag agagcgagat tctccgcgct gtagaagtca 2220
E--> 470 ccattgttgt gcacgacgac atcattccgt ggcgttatcc agctaagcgc gaactgcaat 2280
E--> 472 ttggagaatg gcagcgcaat gacattcttg caggtatctt cgagccagcc acgatcgaca 2340
E--> 474 ttgatctggc tatcttgctg acaaaagcaa gagaacatag cgttgccttg gtaggtccag 2400
E--> 476 cggcggagga actctttgat ccggttcctg aacaggatct atttgaggcg ctaaatgaaa 2460

OK

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/517,039

DATE: 12/22/2004
TIME: 09:15:16

Input Set : A:\Sequence Listing-70094USPCT.txt
Output Set: N:\CRF4\12222004\J517039.raw

```
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E--> 480  cgttgtcccg catttggtac agcgcagtaa ccggcaaaat cgcgccgaag gatgtcgctg 2580   )
E--> 482  ccgactgggc aatggagcgc ctgccggccc agtatcagcc cgtcatactt gaagctaggc 2640   )
E--> 484  aggcttatct tggacaagaa gatcgcttgg cgtcgcgcgc agatcagttg gaagaatttg 2700  /
E--> 486       Page 7
W--> 489       70094 Syngenta    delete
E--> 491  ttcactacgt gaaaggcgag atcaccaaag tagtcggcaa ataaagctct agtggatctc 2760
E--> 493  cgtacccccg ggggatctgg ctcgcggcgg acgcacgacg ccggggcgag accataggcg 2820
E--> 495  atctcctaaa tcaatagtag ctgtaacctc gaagcgtttc acttgtaaca acgattgaga 2880
E--> 497  atttttgtca taaaattgaa atacttggtt cgcatttttg tcatccgcgg tcagccgcaa 2940
E--> 499  ttctgacgaa ctgcccattt agctggagat gattgtacat ccttcacgtg aaaatttctc 3000
E--> 501  aagcgctgtg aacaagggtt cagattttag attgaaaggt gagccgttga aacacgttct 3060
E--> 503  tcttgtcgat gacgacgtcg ctatgcggca tcttattatt gaatacctta cgatccacgc 3120
E--> 505  cttcaaagtg accgcggtag ccgacagcac ccagttcaca agagtactct cttccgcgac 3180
E--> 507  ggtcgatgtc gtggttgttg atctaaattt aggtcgtgaa gatgggctcg agatcgttcg 3240
E--> 509  taatctggcg gcaaagtctg atattccaat cataattatc agtggcgacc gccttgagga 3300
E--> 511  gacggataaa gttgttgcac tcgagctagg agcaagtgat tttatcgcta agccgttcag 3360
E--> 513  tatcagagag tttctagcac gcattcgggt tgccttgcgc gtgcgcccca acgttgtccg 3420
E--> 515  ctccaaagac cgacggtctt tttgtttttac tgactggaca cttaatctca ggcaacgtcg 3480
E--> 517  cttgatgtcc gaagctggcg gtgaggtgaa acttacggca ggtgagttca atcttctcct 3540
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E--> 521  agtacgcgac gaggaggttt atgacaggag tatagatgtt ctcattttga ggctgcgccg 3660
E--> 523  caaacttgag gcagatccgt caagccctca actgataaaa acagcaagag gtgccggtta 3720
E--> 525  tttcttttgac gcggacgtgc aggtttcgca cgggggggacg atggcagcct gagccaattc 3780
E--> 527  ccagatcccc gaggaatcgg cgtgagcggt cgcaaaccat ccggcccggt acaaatcggc 3840
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E--> 535  gacgagcaac cagattttt cgttccgatg ctctatgacg tgggcacccg cgatagtcgc 4080
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E--> 539  atccgctacg agcttccaga cgggcacgta gaggtttccg cagggccggc cggcatggcc 4200
E--> 541  agtgtgtggg attacgacct ggtactgatg gcggtttccc atctaaccga atccatgaac 4260
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E--> 545  gtactcaagt tctgccggcg agccgatggc ggaaagcaga aagacgacct ggtagaaacc 4380
E--> 547  tgcattcggt taaacaccac gcacgttgcc atgcagcgta cgaagaaggc caagaacggc 4440
E--> 549  cgcctggtga cggtatccga gggtgaagcc ttgattagcc gctacaagat cgtaaagagc 4500
E--> 551  gaaaccgggc ggccggagta catcgagatc gagctagctg attggatgta ccgcgagatc 4560
E--> 553  acagaaggca agaacccgga cgtgctgacg gttcaccccg attacttttt gatcgatccc 4620
E--> 555       Page 8
W--> 557       70094 Syngenta    delete
E--> 559  ggcatcggcc gttttctcta ccgcctggca cgccgcgccg caggcaaggc agaagccaga 4680   ) OK
E--> 561  tggttgttca agacgatcta cgaacgcagt ggcagcgccg gagagttcaa gaagttctgt 4740   )
E--> 563  ttcaccgtgc gcaagctgat cgggtcaaat gacctgccgg agtacgattt gaaggaggag 4800   )
E--> 565  gcggggcagg ctggcccgat cctagtcatg cgctaccgca acctgatcga gggcgaagca 4860   )
E--> 567  tccgccggtt cctaatgtac ggagcagatg ctaggcaaa ttgccctagc aggggaaaaa 4920   )
E--> 569  ggtcgaaaag gtctctttcc tgtggatagc acgtacattg gaacccaaa gccgtacatt 4980   /
E--> 571  gggaaccgga acccgtacat tgggaaccca aagccgtaca ttgggaaccg gtcacacatg 5040
E--> 573  taagtgactg atataaaaga gaaaaaggc gattttccg cctaaaactc tttaaaactt 5100
E--> 575  attaaaactc ttaaaacccg cctggcctgt gcataactgt ctggccagcg cacagccgaa 5160
```

12/22/04

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PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

Input Set : A:\Sequence Listing-70094USPCT.txt
Output Set: N:\CRF4\12222004\J517039.raw

[handwritten: WhAt iS? thiS?]

```
E--> 577 gagctgcaaa aagcgcctac ccttcggtcg ctgcgctccc tacgccccgc cgcttcgcgt 5220
E--> 579 cggcctatcg cggccgctgg ccgctcaaaa atggctggcc tacggccagg caatctacca 5280
E--> 581 gggcgcggac aagccgcgcc gtcgccactc gacggccggc gctgaggtct gcctcgtgaa 5340
E--> 583 gaaggtgttg ctgactcata ccaggcctga atcgccccat catccagcca gaaagtgagg 5400
E--> 585 gagccacggt tgatgagagc tttgttgtag gtggaccagt tggtgccttt gaacttttgc 5460  -5459
E--> 587 tttgccacgg aacggtctgc gttgtcggga agatgcgtga tctgatcctt caactcagca 5520
E--> 589 aaagttcgat ttattcaaca aagccgccgt cccgtcaagt cacgtaatg ctctgccagt 5580  -5579
E--> 591 gttacaacca attaaccaat tctgattaga aaaactcatc gagcatcaaa tgaaactgca 5640
E--> 593 atttattcat atcaggatta tcaataccat atttttgaaa aagccgtttc tgtaatgaag 5700  -5699
E--> 595 gagaaaactc accgaggcag ttccatagga tggcaagatc ctggtatcgg tctgcgattc 5760
E--> 597 cgactcgtcc aacatcaata caacctatta atttcccctc gtcaaaaata aggttatcaa 5820
E--> 599 gtgagaaatc accatgagtg acgactgaat ccggtgagaa tggcaaaagc tctgcattaa 5880
E--> 601 tgaatcggcc aacgcgcggg gagaggcggt ttgcgtattg ggcgctcttc cgcttcctcg 5940
E--> 603 ctcactgact cgctgcgctc ggtcgttcgg ctgcggcgag cggtatcagc tcactcaaag 6000
E--> 605 gcggtaatac ggttatccac agaatcaggg gataacgcag gaaagaacat gtgagcaaaa 6060
E--> 607 ggccagcaaa aggccaggaa ccgtaaaaag gccgcgttgc tggcgttttt ccataggctc 6120
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E--> 611 ggactataaa gataccaggc gtttcccct ggaagctccc tcgtgcgctc tcctgttccg 6240
E--> 613 accctgccgc ttaccggata cctgtccgcc tttctcctt cgggaagcgt ggcgctttct 6300
E--> 615 catagctcac gctgtaggta tctcagttcg gtgtaggtcg ttcgctccaa gctgggctgt 6360
E--> 617 gtgcacgaac ccccgttca gcccgaccgc tgcgccttat ccggtaacta tcgtcttgag 6420
E--> 619 tccaaccgg taagacacga cttatcgcca ctggcagcag ccactggtaa caggattagc 6480
E--> 621      Page 9
W--> 625      70094 Syngenta           *[handwritten: delete]*
E--> 627 agagcgaggt atgtaggcgg tgctacagag ttcttgaagt ggtggcctaa ctacggctac 6540
E--> 629 actagaagaa cagtatttgg tatctgcgct ctgctgaagc cagttacctt cggaaaaaga 6600
E--> 631 gttggtagct cttgatccgg caaacaaacc accgctggta gcggtggttt ttttgtttgc 6660
E--> 633 aagcagcaga ttacgcgcag aaaaaaagga tctcaagaag atcctttgat cttttctacg 6720
E--> 635 gggtctgacg ctcagtggaa cgaaaactca cgttaaggga ttttggtcat gagattatca 6780
E--> 637 aaaaggatct tcacctagat ccttttgatc cggaattaat tcctgtggtt ggcatgcaca 6840
E--> 639 tacaaatgga cgaacggata aacctttca cgcccttta aatatcgat tattctaata 6900
E--> 641 aacgctcttt tctcttaggt ttacccgcca atatatcctg tcaaacactg atagtttaaa 6960
E--> 643 ctgaaggcgg gaaacgacaa tctgatcatg agcggagaat taagggagtc acgttatgac 7020
E--> 645 ccccgccgat gacgcgggac aagccgtttt acgtttggaa ctgacagaac cgcaacgctg 7080
E--> 647 caggaattgg ccgcagcggc catttaaatc aattgggcgc gtacgtagca ctagtgcgcg 7140
E--> 649 atcgcttaat taagcggcgc gcctaaagct tctggcagac aaagtggcag acatactgtc 7200
E--> 651 ccacaaatga agatggaatc tgtaaaagaa aacgcgtgaa ataatgcgtc tgacaaaggt 7260
E--> 653 taggtcggct gcctttaatc aataccaaag tggtccctac cacgatggaa aaactgtgca 7320
E--> 655 gtcggtttgg ctttttctga cgaacaaata agattcgtgg ccgacaggtg ggggtccacc 7380
E--> 657 atgtgaaggc atcttcagac tccaataatg gagcaatgac gtaagggctt acgaaataag 7440
E--> 659 taagggtagt ttgggaaatg tccactcacc cgtcagtcta taaatactta gcccctccct 7500
E--> 661 cattgttaag ggagcaagga tccaccggtc gccaccatgg ccctgtccaa caagttcatc 7560
E--> 663 ggcgacgaca tgaagatgac ctaccacatg gacggctgcg tgaacggcca ctacttcacc 7620
E--> 665 gtgaagggcg agggcagcgg caagccctac gagggcaccc agacctccac cttcaaggtg 7680
E--> 667 accatggcca acggcggccc cctggccttc tccttcgaca tcctgtccac cgtgttcatg 7740
E--> 669 tacggcaacc gctgcttcac cgcctacccc accagcatgc ccgactactt caagcaggcc 7800
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E--> 673 gccagctggg agatcagcct gaagggcaac tgcttcgagc acaagtccac cttccacggc 7920
E--> 675 gtgaacttcc ccgccgacgg ccccgtgatg gccaagaaga ccaccggctg ggacccctcc 7980
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[handwritten right margin: OK, 5459, 5579, 5699, Same errors]

RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

Input Set : A:\Sequence Listing-70094USPCT.txt
Output Set: N:\CRF4\12222004\J517039.raw

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E--> 679 ctgcagggcg gcggcaacta cagatgccag ttccacacct cctacaagac caagaagccc 8100
E--> 681 gtgaccatgc cccccaacca cgtggtggag caccgcatcg ccagaaccga cctggacaag 8160
E--> 683 ggcggcaaca gcgtgcagct gaccgagcac gccgtggccc acatcacctc cgtggtgccc 8220
E--> 685 ttctgagagc tctagatccc cgaatttccc cgatcgttca aacatttggc aataaagttt 8280
E--> 687 cttaagattg aatcctgttg ccggtcttgc gatgattatc atataatttc tgttgaatta 8340
E--> 689 cgttaagcat gtaataatta acatgtaatg catgacgtta tttatgagat gggtttttat 8400
E--> 691     Page 10                                                        delete
W--> 694     70094 Syngenta
E--> 696 gattagagtc ccgcaattat acatttaata cgcgatagaa aacaaaatat agcgcgcaaa 8460
E--> 698 ctaggataaa ttatcgcgcg cggtgtcatc tatgttacta gatcgggaat tgggtaccga 8520
E--> 700 attcactggc cgtcgtttta caacgtcgtg actgggaaaa ccctggcgtt acccaactta 8580
E--> 702 atcgccttgc agcacatccc cctttcgcca gctggcgtaa tagcgaagag gcccgcaccg 8640
E--> 704 atcgcccttc ccaacagttg cgcagcctga atggcgaatg gcgcctgatg cggtattttc 8700
E--> 706 tccttacgca tctgtgcggt atttcacacc gcatatggtg cactctcagt acaatctgct 8760
E--> 708 ctgatgccgc atagttaagc cagccccgac acccgccaac acccgctgac gcgccctgac 8820
E--> 710 gggcttgtct gctcccggca tccgcttaca gacaagctgt gaccgtctcc gggagctgca 8880
E--> 712 tgtgtcagag gttttcaccg tcatcaccga aacgcgcgag acgaaagggc ctcgtgatac 8940
E--> 714 gcctattttt ataggttaat gtcatgataa taatggtttc ttagacgtca ggtggcactt 9000
E--> 716 ttcggggaaa tgtgcgcgga acccctattt gtttattttt ctaaatacat tcaaatatgt 9060
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E--> 720 atgcctgcag gtcgactcta gaggatcctg gcagacaaag tggcagacat actgtcccac 9180
E--> 722 aaatgaagat ggaatctgta aaagaaaacg cgtgaaataa tgcgtctgac aaaggttagg 9240
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E--> 732 gttaagggag caaaatctca gagagatagt cctagagaga gaaagagagc aagtagccta 9540
E--> 734 gaagta      9546                                                    9543
    737 <210> SEQ ID NO: 3
    738 <211> LENGTH: 10604      9543
    739 <212> TYPE: DNA          Found 10602
    740 <213> ORGANISM: Artificial
    742 <220> FEATURE:
    743 <223> OTHER INFORMATION: pBSC11234
    745 <400> SEQUENCE: 3
    746 cgcgcctaaa gcttgcatgc ctgcaggtcg actctagagg atcctggcag acaaagtggc 60
    748 agacatactg tcccacaaat gaagatggaa tctgtaaaag aaaacgcgtg aaataatgcg 120
    750 tctgacaaag gttaggtcgg ctgcctttaa tcaataccaa agtggtccct accacgatgg 180
    752 aaaaactgtg cagtcggttt ggctttttct gacgaacaaa taagattcgt ggccgacagg 240
    754 tgggggtcca ccatgtgaag gcatcttcag actccaataa tggagcaatg acgtaagggc 300
    756 ttacgaaata agtaagggta gtttgggaaa tgtccactca cccgtcagtc tataaatact 360
E--> 758     Page 11                                                        delete
W--> 760     70094 Syngenta
E--> 762 tagcccctcc ctcattgtta agggagcaaa atctcagaga gatagtccta gagagagaaa 420
E--> 764 gagagcaagt agcctagaag taggatcccc gatcatgcaa aaactcatta actcagtgca 480
E--> 766 aaactatgcc tggggcagca aaacggcgtt gactgaactt tatggtatgg aaaatccgtc 540
E--> 768 cagccagccg atggccgagc tgtggatggg cgcacatccg aaaagcagtt cacgagtgca 600
E--> 770 gaatgccgcc ggagatatcg tttcactgcg tgatgtgatt gagagtgata aatcgactct 660
```

RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

Input Set : A:\Sequence Listing-70094USPCT.txt
Output Set: N:\CRF4\12222004\J517039.raw

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E--> 772 gctcggagag gccgttgcca aacgctttgg cgaactgcct ttcctgttca aagtattatg 720
E--> 774 cgcagcacag ccactctcca ttcaggttca tccaaacaaa cacaattctg aaatcggttt 780
E--> 776 tgccaaagaa aatgccgcag gtatcccgat ggatgccgcc gagcgtaact ataaagatcc 840
E--> 778 taaccacaag ccggagctgg tttttgcgct gacgcctttc cttgcgatga acgcgtttcg 900
E--> 780 tgaattttcc gagattgtct ccctactcca gccggtcgca ggtgcacatc cggcgattgc 960
E--> 782 tcactttta caacagcctg atgccgaacg tttaagcgaa ctgttcgcca gcctgttgaa 1020
E--> 784 tatgcagggt gaagaaaaat cccgcgcgct ggcgatttta aaatcggccc tcgatagcca 1080
E--> 786 gcagggtgaa ccgtggcaaa cgattcgttt aatttctgaa ttttacccgg aagacagcgg 1140
E--> 788 tctgttctcc ccgctattgc tgaatgtggt gaaattgaac cctggcgaag cgatgttcct 1200
E--> 790 gttcgctgaa acaccgcacg cttacctgca aggcgtggcg ctggaagtga tggcaaactc 1260
E--> 792 cgataacgtg cggcgtgcgg gtctgacgcc taaatacatt gatattccgg aactggttgc 1320
E--> 794 caatgtgaaa ttcgaagcca aaccggctaa ccagttgttg acccagccgg tgaaacaagg 1380
E--> 796 tgcagaactg gacttcccga ttccagtgga tgattttgcc ttctcgctgc atgaccttag 1440
E--> 798 tgataaagaa accaccatta gccagcagag tgccgccatt ttgttctgcg tcgaaggcga 1500
E--> 800 tgcaacgttg tggaaaggtt ctcagcagtt acagcttaaa ccgggtgaat cagcgtttat 1560
E--> 802 tgccgccaac gaatcaccgg tgactgtcaa aggccacggc cgtttagcgc gtgtttacaa 1620
E--> 804 caagctgtaa gagcttactg aaaaaattaa catctcttgc taagctggga gctctagatc 1680
E--> 806 cccgaatttc cccgatcgtt caaacatttg gcaataaagt ttcttaagat tgaatcctgt 1740
E--> 808 tgccggtctt gcgatgatta tcatataatt tctgttgaat tacgttaagc atgtaataat 1800
E--> 810 taacatgtaa tgcatgacgt tatttatgag atgggttttt atgattagag tcccgcaatt 1860
E--> 812 atacatttaa tacgcgatag aaaacaaaat atagcgcgca aactaggata aattatcgcg 1920
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RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

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Output Set: N:\CRF4\12222004\J517039.raw

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W--> 894   70094 Syngenta
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← Invalid Amino Acid designators

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RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039 TIME: 09:15:16

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E--> 1237 atagggatcc cccgaatttc cccgatcgtt caaacatttg gcaataaagt ttcttaagat 2820
E--> 1239 tgaatcctgt tgccggtctt gcgatgatta tcatataatt tctgttgaat tacgttaagc 2880
E--> 1241 atgtaataat aacatgtaa tgcatgacgt tatttatgag atgggttttt atgattagag 2940
E--> 1243 tcccgcaatt atacatttaa tacgcgatag aaaacaaaat atagcgcgca aactaggata 3000
E--> 1245 aattatcgcg cgcggtgtca tctatgttac tagatcggga attagcggcc cgaattcact 3060
E--> 1247 ggccgtcgtt ttacaacgtc gtgactggga aaaccctggc gttacccaac ttaatcgcct 3120
E--> 1249 tgcagcacat cccccttcg ccaggggcgg ccagcatggc cgtatccgca atgtgttatt 3180
E--> 1251 aagttgtcta agcgtcaatt tgtttacacc acaatatatc ctgccaccag ccagccaaca 3240
E--> 1253 gctccccgac cggcagctcg gcacaaaatc accactcgat acaggcagcc catcagaatt 3300
E--> 1255 aattctcatg tttgacagct tatcatcgac tgcacggtgc accaatgctt ctggcgtcag 3360
E--> 1257 gcagccatcg gaagctgtgg tatggctgtg caggtcgtaa atcactgcat aattcgtgtc 3420
E--> 1259 gctcaaggcg cactcccgtt ctggataatg tttttgcgc cgacatcata acggttctgg 3480

RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

Input Set : A:\Sequence Listing-70094USPCT.txt
Output Set: N:\CRF4\12222004\J517039.raw

```
E--> 1261 caaatattct gaaatgagct gttgacaatt aatcatccgg ctcgtataat gtgtggaatt 3540
E--> 1263 gtgagcggat aacaatttca cacaggaaac agaccatgag ggaagcgttg atcgccgaag 3600
E--> 1265 tatcgactca actatcagag gtagttggcg tcatcgagcg ccatctcgaa ccgacgttgc 3660
E--> 1267 tggccgtaca tttgtacggc tccgcagtgg atggcggcct gaagccacac agtgatattg 3720
E--> 1269 atttgctggt tacggtgacc gtaaggcttg atgaaacaac gcggcgagct ttgatcaacg 3780
E--> 1271 accttttgga aacttcggct tcccctggag agagcgagat tctccgcgct gtagaagtca 3840
E--> 1273 ccattgttgt gcacgacgac atcattccgt ggcgttatcc agctaagcgc gaactgcaat 3900
E--> 1275 ttggagaatg gcagcgcaat gacattcttg caggtatctt cgagccagcc acgatcgaca 3960
E--> 1277 ttgatctggc tatcttgctg acaaaagcaa gagaacatag cgttgccttg gtaggtccag 4020
E--> 1279 cggcggagga actctttgat ccggttcctg aacaggatct atttgaggcg ctaaatgaaa 4080
E--> 1281 ccttaacgct atggaactcg ccgcccgact gggctggcga tgagcgaaat gtagtgctta 4140
E--> 1283 cgttgtcccg catttggtac agcgcagtaa ccggcaaaat cgcgccgaag gatgtcgctg 4200
E--> 1285 ccgactgggc aatggagcgc ctgccggccc agtatcagcc cgtcatactt gaagctaggc 4260
E--> 1287 aggcttatct tggacaagaa gatcgcttgg cctcgcgcgc agatcagttg gaagaatttg 4320
E--> 1289 ttcactacgt gaaaggcgag atcaccaaag tagtcggcaa ataaagctct agtggatctc 4380
E--> 1291 cgtacccggg gatctggctc gcggcggacg cacgacgccg gggcgagacc ataggcgatc 4440
E--> 1293 tcctaaatca atagtagctg taacctcgaa gcgtttcact tgtaacaacg attgagaatt 4500
E--> 1295 tttgtcataa aattgaaata cttggttcgc atttttgtca tccgcggtca gccgcaattc 4560
E--> 1297
W--> 1300
```

Page 19
70094 Syngenta   delete

```
E--> 1302 tgacgaactg cccatttagc tggagatgat tgtacatcct tcacgtgaaa atttctcaag 4620
E--> 1304 cgctgtgaac aagggttcag attttagatt gaaaggtgag ccgttgaaac acgttcttct 4680
E--> 1306 tgtcgatgac gacgtcgcta tgcggcatct tattattgaa taccttacga tccacgcctt 4740
E--> 1308 caaagtgacc gcggtagccg acagcaccca gttcacaaga gtactctctt ccgcgacggt 4800
E--> 1310 cgatgtcgtg gttgttgatc tagatttagg tcgtgaagat gggctcgaga tcgttcgtaa 4860
E--> 1312 tctggcggca aagtctgata ttccaatcat aattatcagt ggcgaccgcc ttgaggagac 4920
E--> 1314 ggataaagtt gttgcactcg agctaggagc aagtgatttt atcgctaagc cgttcagtat 4980
E--> 1316 cagagagttt ctagcacgca ttcgggttgc cttgcgcgtg cgccccaacg ttgtccgctc 5040
E--> 1318 caaagaccga cggtcttttt gttttactga ctggacactt aatctcaggc aacgtcgctt 5100
E--> 1320 gatgtccgaa gctggcggtg aggtgaaact tacggcaggt gagttcaatc ttctcctcgc 5160
E--> 1322 gtttttagag aaaccccgcg acgttctatc gcgcgagcaa cttctcattg ccagtcgagt 5220
E--> 1324 acgcgacgag gaggtttatg acaggagtat agatgttctc attttgaggc tgcgccgcaa 5280
E--> 1326 acttgaggca gatccgtcaa gccctcaact gataaaaaca gcaagaggtg ccggttattt 5340
E--> 1328 ctttgacgcg gacgtgcagg tttcgcacgg ggggacgatg gcagcctgag ccaattccca 5400
E--> 1330 gatccccgag gaatcggcgt gagcggtcgc aaaccatccg gcccggtaca aatcggcgcg 5460
E--> 1332 gcgctgggtg atgacctggt ggagaagttg aaggccgcgc aggccgccca gcggcaacgc 5520
E--> 1334 atcgaggcag aagcacgccc cggtgaatcg tggcaagcgg ccgctgatcg aatccgcaaa 5580
E--> 1336 gaatcccggc aaccgccggc agccggtgcg ccgtcgatta ggaagccgcc caagggcgac 5640
E--> 1338 gagcaaccag attttttcgt tccgatgctc tatgacgtgg gcacccgcga tagtcgcagc 5700
E--> 1340 atcatggacg tggccgtttt ccgtctgtcg aagcgtgacc gacgagctgg cgaggtgatc 5760
E--> 1342 cgctacgagc ttccagacgg gcacgtagag gtttccgcag ggccggccgg catggccagt 5820
E--> 1344 gtgtgggatt acgacctggt actgatggcg gtttcccatc taaccgaatc catgaaccga 5880
E--> 1346 taccgggaag ggaagggaga caagcccggc cgcgtgttcc gtccacacgt tgcggacgta 5940
E--> 1348 ctcaagttct gccggcgagc cgatggcgga aagcagaaag acgacctggt agaaacctgc 6000
E--> 1350 attcggttaa acaccacgca cgttgccatg cagcgtacga agaaggccaa gaacggccgc 6060
E--> 1352 ctggtgacgg tatccgaggg tgaagccttg attagccgct acaagatcgt aaagagcgaa 6120
E--> 1354 accgggcggc cggagtacat cgagatcgag ctagctgatt ggatgtaccg cgagatcaca 6180
E--> 1356 gaaggcaaga acccggacgt gctgacggtt caccccgatt actttttgat cgatcccggc 6240
E--> 1358 atcggccgtt ttctctaccg cctggcacgc cgcgccgcag caaggcagag agccagatgg 6300
```

RAW SEQUENCE LISTING   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:16

Input Set : A:\Sequence Listing-70094USPCT.txt
Output Set: N:\CRF4\12222004\J517039.raw

```
E--> 1360 ttgttcaaga cgatctacga acgcagtggc agcgccggag agttcaagaa gttctgtttc 6360
E--> 1362 accgtgcgca agctgatcgg gtcaaatgac ctgccggagt acgatttgaa ggaggaggcg 6420
E--> 1364 gggcaggctg gcccgatcct agtcatgcgc/taccgcaacc tgatcgaggg cgaagcatcc 6480
E--> 1366       Page 20
W--> 1368       70094 Syngenta      delete
E--> 1370 gccggttcct aatgtacgga gcagatgcta gggcaaattg ccctagcagg ggaaaaaggt 6540
E--> 1372 cgaaaaggtc tctttcctgt ggatagcacg tacattggga acccaaagcc gtacattggg 6600
E--> 1374 aaccggaacc cgtacattgg gaacccaaag ccgtacattg ggaaccggtc acacatgtaa 6660
E--> 1376 gtgactgata taaaagagaa aaaaggcgat ttttccgcct aaaactcttt aaaacttatt 6720
E--> 1378 aaaactctta aaacccgcct ggcctgtgca taactgtctg gccagcgcac agccgaagag 6780
E--> 1380 ctgcaaaaag cgcctaccct tcggtcgctg cgctccctac gccccgccgc ttcgcgtcgg 6840
E--> 1382 cctatcgcgg ccgctggccg ctcaaaaatg gctggcctac ggccaggcaa tctaccaggg 6900
E--> 1384 cgcggacaag ccgcgccgtc gccactcgac cgccggcgct gaggtctgcc tcgtgaagaa 6960
E--> 1386 ggtgttgctg actcatacca ggcctgaatc gccccatcat ccagccagaa agtgagggag 7020
E--> 1388 ccacggttga tgagagcttt gttgtaggtg gaccagttgg tgattttgaa cttttgcttt 7080
E--> 1390 gccacggaac ggtctgcgtt gtcgggaaga tgcgtgatct gatccttcaa ctcagcaaaa 7140
E--> 1392 gttcgattta ttcaacaaag ccgccgtccc gtcaagtcag cgtaatgctc tgccagtgtt 7200
E--> 1394 acaaccaatt aaccaattct gattagaaaa actcatcgag catcaaatga aactgcaatt 7260
E--> 1396 tattcatatc aggattatca ataccatatt tttgaaaaag ccgtttctgt aatgaaggag 7320
E--> 1398 aaaactcacc gaggcagttc cataggatgg caagatcctg gtatcggtct gcgattccga 7380
E--> 1400 ctcgtccaac atcaatacaa cctattaatt tcccctcgtc aaaaataagg ttatcaagtg 7440
E--> 1402 agaaatcacc atgagtgacg actgaatccg gtgagaatgg caaaagctct gcattaatga 7500
E--> 1404 atcggccaac gcgcgggggag aggcggtttg cgtattgggc gctcttccgc ttcctcgctc 7560
E--> 1406 actgactcgc tgcgctcggt cgttcggctg cggcgagcgg tatcagctca ctcaaaggcg 7620
E--> 1408 gtaatacggt tatccacaga atcaggggat aacgcaggaa agaacatgtg agcaaaaggc 7680
E--> 1410 cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgttttccca taggctccgc 7740
E--> 1412 cccccctgacg agcatcacaa aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga 7800
E--> 1414 ctataaagat accaggcgtt ccccctgga agctccctcg tgcgctctcc tgttccgacc 7860
E--> 1416 ctgccgctta ccggatacct gtccgccttt ctcccttcgg gaagcgtggc gctttctcat 7920
E--> 1418 agctcacgct gtaggtatct cagttcggtg taggtcgttc gctccaagct gggctgtgtg 7980
E--> 1420 cacgaacccc ccgttcagcc cgaccgctgc gccttatccg gtaactatcg tcttgagtcc 8040
E--> 1422 aacccggtaa gacacgactt atcgccactg gcagcagcca ctggtaacag gattagcaga 8100
E--> 1424 gcgaggtatg taggcggtgc tacagagttc ttgaagtggt ggcctaacta cggctacact 8160
E--> 1426 agaagaacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg aaaaagagtt 8220
E--> 1428 ggtagctctt gatccggcaa acaaaccacc gctggtagcg gtggtttttt tgtttgcaag 8280
E--> 1430 cagcagatta cgcgcagaaa aaaaggatct caaggagatc ctttgatctt ttctacgggg 8340
E--> 1432       Page 21
W--> 1434       70094 Syngenta      delete
E--> 1436 tctgacgctc agtggaacga aaactcacgt taagggattt tggtcatgag attatcaaaa 8400
E--> 1438 aggatcttca cctagatcct tttgatccgg aattaattcc tgtggttggc atgcacatac 8460
E--> 1440 aaatggacga acggataaac cttttcacgc ccttttaaat atccgattat tctaataaac 8520
E--> 1442 gctcttttct cttaggttta cccgccaata tatcctgtca aacactgata gtttaaactg 8580
E--> 1444 aaggcgggaa acgacaatct gatcatgagc ggagaattaa gggagtcacg ttatgacccc 8640
E--> 1446 cgccgatgac gcgggacaag ccgttttacg tttggaactg acagaaccgc aacgctgcag 8700
E--> 1448 gaattggccg gagcggccat ttaaatcaat tgggcgcgcc gaattcgagc tcggtac 8757
E--> 1450       Page 22      8755
```

P/S
delete

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:17

Input Set : **A:\Sequence Listing-70094USPCT.txt**
Output Set: **N:\CRF4\12222004\J517039.raw**

<u>Invalid <213> Response:</u>
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4

VERIFICATION SUMMARY   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:17

Input Set : **A:\Sequence Listing-70094USPCT.txt**
Output Set: **N:\CRF4\12222004\J517039.raw**

```
L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:65 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:1264 SEQ:1
L:65 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:71 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:73 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
M:254 Repeated in SeqNo=1
L:137 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:145 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:147 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:209 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:215 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:217 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:281 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:284 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:286 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:306 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:8
L:312 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:326 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:348 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:352 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:354 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
L:378 M:252 E: No. of Seq. differs, <211> LENGTH:Input:9555 Found:9575 SEQ:1
L:418 M:254 E: No. of Bases conflict, LENGTH:Input:6 Counted:844 SEQ:2
L:418 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:422 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:424 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
M:254 Repeated in SeqNo=2
L:486 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:489 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:491 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
L:555 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:557 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:559 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
L:585 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:589 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:593 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:621 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:625 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:627 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
L:691 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:694 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:696 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:2
L:734 M:252 E: No. of Seq. differs, <211> LENGTH:Input:9546 Found:9563 SEQ:2
L:758 M:254 E: No. of Bases conflict, LENGTH:Input:11 Counted:364 SEQ:3
L:758 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:760 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
```

VERIFICATION SUMMARY   DATE: 12/22/2004
PATENT APPLICATION: US/10/517,039   TIME: 09:15:17

Input Set : **A:\Sequence Listing-70094USPCT.txt**
Output Set: **N:\CRF4\12222004\J517039.raw**

```
L:762 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
M:254 Repeated in SeqNo=3
L:792 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:826 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:828 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:830 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:892 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:894 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:896 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:914 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:918 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9
L:920 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:8
L:926 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:928 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:932 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:5
L:940 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:946 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:948 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:1
L:960 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:962 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:964 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:1026 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1029 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1031 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:1095 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1098 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1100 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3
L:1124 M:252 E: No. of Seq. differs, <211> LENGTH:Input:10604 Found:10626 SEQ:3
L:1162 M:254 E: No. of Bases conflict, LENGTH:Input:17 Counted:784 SEQ:4
L:1162 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1164 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1166 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4
M:254 Repeated in SeqNo=4
L:1230 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1233 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1235 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4
L:1235 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1297 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1300 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1302 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4
L:1366 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1368 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1370 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4
L:1432 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1434 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:2
L:1436 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:4
L:1450 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
L:1450 M:252 E: No. of Seq. differs, <211> LENGTH:Input:8757 Found:8779 SEQ:4
```